
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=5; day=28; hr=12; min=33; sec=4; ms=333;]

Reviewer Comments:

<140> 10/082,973

2002-02-26

Please insert a <141> at the beginning of the above "2002-02-26" line; <141> is a mandatory numeric identifier indicating the current filing date.

<210> 8

<211> 56

<212> DNA

<213> E. coli

Please spell out the Genus ("Escherichia") in the above <213> response; per Sequence Rules, show the Genus species in that response. Same response in subsequent sequences.

<210> 20

<211> 34

<212> DNA

<213> Mus musclus

Please change the above <213> response to "Mus musculus".

<210> 21

<211> 36

<212> DNA

<213> HBV

Please spell out the virus in the above <213> response; same in Sequence

22.

<210> 51

<211> 364

<212> DNA

213> Artificial Sequence

<220>

<223> pSnip ribozyme cassette

Please add an opening bracket ("<") to the above <213> numeric identifier. It must be <213>.

Validated By CRFValidator v 1.0.3

Application No: 10082973 Version No: 3.0

Input Set:

Output Set:

Started: 2009-05-28 10:39:30.012

Finished: 2009-05-28 10:39:33.620

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 608 ms

Total Warnings: 45

Total Errors: 2

No. of SeqIDs Defined: 73

Actual SeqID Count: 73

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (1)
W	213	Artificial or Unknown found in <213> in SEQ ID (2)
W	213	Artificial or Unknown found in <213> in SEQ ID (3)
W	213	Artificial or Unknown found in <213> in SEQ ID (4)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)
W	213	Artificial or Unknown found in <213> in SEQ ID (6)
W	213	Artificial or Unknown found in <213> in SEQ ID (7)
W	402	Undefined organism found in <213> in SEQ ID (8)
W	402	Undefined organism found in <213> in SEQ ID (9)
W	402	Undefined organism found in <213> in SEQ ID (10)
W	402	Undefined organism found in <213> in SEQ ID (11)
W	402	Undefined organism found in <213> in SEQ ID (12)
W	402	Undefined organism found in <213> in SEQ ID (15)
W	213	Artificial or Unknown found in <213> in SEQ ID (18)
W	402	Undefined organism found in <213> in SEQ ID (20)
W	402	Undefined organism found in <213> in SEQ ID (21)
W	402	Undefined organism found in <213> in SEQ ID (22)
W	213	Artificial or Unknown found in <213> in SEQ ID (37)
W	213	Artificial or Unknown found in <213> in SEQ ID (38)
W	213	Artificial or Unknown found in <213> in SEQ ID (39)

Input Set:

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Actual SeqID Count: 73

Error cod	de Error Description	
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (This error has occured more than 20 times, will	· ·
E 249	Order Sequence Error <212> -> <220>; Expected Man in SEQID (51)	datory Tag: <213>
W 402	Undefined organism found in <213> in SEQ ID (54)	
W 402	Undefined organism found in <213> in SEQ ID (55)	
W 402	Undefined organism found in <213> in SEQ ID (56)	
W 402	Undefined organism found in <213> in SEQ ID (57)	
W 402	Undefined organism found in <213> in SEQ ID (58)	
W 402	Undefined organism found in <213> in SEQ ID (59)	
W 402	Undefined organism found in <213> in SEQ ID (60)	
W 402	Undefined organism found in <213> in SEQ ID (61)	
W 402	Undefined organism found in <213> in SEQ ID (62)	
W 402	Undefined organism found in <213> in SEQ ID (63)	
W 402	Undefined organism found in <213> in SEQ ID (64) This error has occured more than 20 times, will	not be displayed

Input Set:

Output Set:

Started: 2009-05-28 10:39:30.012

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Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 608 ms

Total Warnings: 45

Total Errors: 2

No. of SeqIDs Defined: 73

Actual SeqID Count: 73

Error code Error Description

E 250 Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

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<110> Norris, James S.
      Clawson, Gary A.
 Schmidt, Michael G.
Hoel, Brian D.
Pan, Wei-Hua
 Dolan, Joseph W.
<120> TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES
<130> 14017-0004002
<140> 10/082,973
      2002-02-26
<150> 09/338,942
<151> 1999-06-24
<150> 60/090,560
<151> 1998-06-24
<150> 60/096,502
<151> 1998-08-14
<160> 73
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 492
<212> DNA
<213> Artificial Sequence
<220>
<223> ARN promoter
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                                                                         60
ccaccggcac ccccatggta gcggccagct cgcgccctgc ctgggaaagc tgtacatgct
                                                                        120
                                                                        180
 gateggegge gteggtgeeg geggeegggt etteegeetg eteggeggtg eeggteegtg
cggccttggc gtccgcggcg gcgcgcgatg agggcggcac ctgggtggtg atccagccac
                                                                        240
                                                                        300
 tgagggtcaa cattccagtc actccgggaa aaatggaatt cttccattgg atcggcccac
                                                                        360
 gcgtcgcgaa cttgagcccc cttttcgtcg ccccttgaca gggtgcgaca ggtagtcgca
gttgtttgac gcaagtcact gattggaaac gccatcggcc tgtcagaaat ggtcgttgcc
                                                                        420
agacctatgg ctggcacccg catcgcggct gcgttaccct tactcctgtt gtgcctttaa
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                                                                        492
 cctagcaagg ac
<210> 2
<211> 1113
<212> DNA
<213> Artificial Sequence
<220>
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<223> PROC promoter

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                                                                        180
 ggtggcaggc cggcggagag gtgcaggtcc gaagcgccct gtttggcact gaaggcgagc
                                                                        240
 agctcggtaa tatccatggg actccccaat tacaagcaag caggtagaat gccgccaaag
                                                                        300
 ccgccgtctc ggacaaggaa aacaccggat gagccagggt gcttccagga cacgcgtggt
                                                                        360
 gtcctgcgcc agacgcggaa cctcgacact ggaacaggaa gatggccatc gaggccggcg
                                                                        420
 gtttcgaggg cgtcgagccg acgccgaccg cacttccata gggcgcaggt aatgtccacg
                                                                        480
 atagcagaga atattgcaaa ggttgccgcg cgcatccgtg aggcagcgca agctgcgggg
                                                                        540
 cgcgatccgg ccacggtcgg cctgctcgcc gtgagcaaga ccaagcccgc cgccgcggtg
                                                                        600
 cgcgaggcgc acgccgccgg ccttcgcgac ttcggcgaaa actacctgca ggaggccctc
                                                                        660
 ggcaagcagg ccgaactggc cgacctgccc ttgaactggc acttcatcgg ccccatccag
                                                                        720
 tcgaacaaga cgcggcccat cgccgagcat ttccagtggg tgcactcggt ggaccggttg
                                                                        780
 aagatcgcgc agcgcctgtc ggagcaacgc ccggccgggc tgccgcccct gaatgtctgc
                                                                        840
 ctgcaggtca acgtcagcgg cgaagccagc aagtccggct gcgcccccga ggacctgccg
                                                                        900
 gccctggccg aggccgtgaa gcaactgccc aacctccgat tgcgtggcct gatggccatc
                                                                        960
 cccgaaccca ccgccgaacg cgccgcgcaa cacgccgcgt tcgcccgcct gcgcgaactg
                                                                       1020
 ctgctggacc tgaaccttgg cctggacacc ctgtccatgg gcatgagcga cgacctcgag
                                                                       1080
 gcagccatcg gcgaaggtgc gacctgggtc cgcatcggta ccgccctgtt cggcgcccgc
 gactacggcg cgccggcttc ttgaatgaat ccc
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<210> 3
<211> 66
<212> DNA
<213> Artificial Sequence
<220>
<223> ARC promoter
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                                                                         60
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tgtgag
<210> 4
<211> 685
<212> DNA
<213> Artificial Sequence
<220>
<223> UPCM2 cassette sequence
<400> 4
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 aagcttatcg ataccgtcga cctcgaagct ttggaaccct gatgagtccg tgaggacgaa
                                                                        120
                                                                        180
 acgatgacat tctgctgacc agattcacgg tcagcagaat gtcatcgtcg gttccaggat
                                                                        240
 ccggctgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa
 ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga
                                                                        300
 actatatccg gatatcccgc aagaggcccg gcagtaccgg cataaccaag cctatgccta
                                                                        360
 cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg
                                                                        420
                                                                        480
 gtgcctgact gcgttagcaa tttaactgtg ataaactacc gcattaaagc ttatcgatga
                                                                        540
 taagctgtca aacatgagaa ttcggcgtat acgccgaatt tcaagggtct gcgcaacgac
                                                                        600
 gacgatgagg taccacatcg tcgtcgttgc gcactgatga ggccgtgagg ccgaaaccct
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 tgacgcgtaa aaaaaacccg ccccggcggg ttttttaccc ttcctatgcg gccgctctag
                                                                        685
 tcgaggggg gcccgctaga actag
```

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<212> DNA
<213> Artificial Sequence
<220>
<223> P2CM2 cassette sequence
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 gataacaatt cacaagctta tcgataccgt cgacctcgag ctttggaacc ctgatgagtc
                                                                        120
 cgtgaggacg aaacgatgac attctgctga ccagattcac ggtcagcaga atgtcatcgt
                                                                        180
                                                                        240
 cggttccagg atccggctgc taacaaagcc cgaaaggaag ctgagttggc tgctgccacc
                                                                        300
 gctgagcaat aactagcata accccttggg gcctctaaac gggtcttgag gggttttttg
                                                                        360
 ctgaaaggag gaactatatc cggatatccc gcaagaggcc cggcagtacc ggcataacca
                                                                        420
 agcctatgcc tacagcatcc agggtgacgg tgccgaggat gacgatgagc gcattgttag
                                                                        480
 atttcataca cggtgcctga ctgcgttagc aatttaactg tgataaacta ccgcattaaa
                                                                        540
 gcttatcgat gataagctgt caaacatgag aattcggcgt atacgccgaa tttcaagggt
 ctgcgcaacg acgacgatga ggtaccacat cgtcgtcgtt gcgcactgat gaggccgtga
                                                                        600
                                                                        660
 ggccgaaacc cttgacgcgt aaaaaaacc cgccccggcg ggttttttac gcgttcctat
                                                                        673
 gcggccgctc tag
<210> 6
<211> 14
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 6
                                                                         14
 agctcgagct caga
<210> 7
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
<400> 7
 tcgacggatc tagatcc
                                                                         17
<210> 8
<211> 56
<212> DNA
<213> E. coli
<400> 8
agatctaaat cattcacctg atgagtccgt gaggacgaaa ctttagcaaa ccaagg
                                                                         56
<210> 9
<211> 54
<212> DNA
<213> E. coli
```

<400> 9

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<210> 10		
<211> 54		
<212> DNA		
<213> E. coli		
<400> 10		
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agatetadae cacateetga tyagteegtg aggaegadae agtttadaee	aagg	
<210> 11		
<211> 55		
<212> DNA		
<213> E. coli		
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<210> 12		
<211> 56		
<212> DNA		
<213> E. coli		
.400. 10		
<400> 12	F.C	
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<211> 53		
<212> DNA		
<213> Streptomyces lividans		
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<210> 14		
<211> 55		
<212> DNA		
<213> Enterococcus faecalis		
<100> 14		
<400> 14	caaqq 55	
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<210> 15		
<211> 54		
<212> DNA		
<213> Psudeomonas putida		
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agatctaaat cgctttctga tgagtccgtg aggacgaaac gtgataaacc	aagg 54	
<210> 16		
<211> 54		
<212> DNA		
<213> Streptomyces coelicolor		
<400> 16		
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againtadag ingangunga igagintegig aggangaaan iingaadan	aayy	

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<210> 17
<211> 56
<212> DNA
<213> Staphylococcus warneri
<400> 17
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<210> 18
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> B2 consensus
<400> 18
                                                                          38
tgctcttctg atgagtccgt gaggacgaaa ccgcctga
<210> 19
<211> 39
<212> DNA
<213> Mus musculus
<400> 19
                                                                          39
ttcaaagact gatgagtccg tgaggacgaa acgaggatc
<210> 20
<211> 34
<212> DNA
<213> Mus musclus
<400> 20
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<210> 21
<211> 36
<212> DNA
<213> HBV
<400> 21
attagagctg atgagtccgt gaggacgaaa caaacg
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<210> 22
<211> 37
<212> DNA
<213> HPV
<400> 22
gtcctgactg atgagtccgt gaggacgaaa cattgca
                                                                          37
<210> 23
<211> 44
<212> DNA
<213> Homo sapiens
<400> 23
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tccgttgtct ctgatgagtc cgtgaggacg aaacatgaca ccga	44
<210> 24	
<211> 39	
<212> DNA	
<213> Homo sapiens	
±	
<400> 24	
gcgaggagct gatgagtccg tgaggacgaa acatggtgt	39
<210> 25	
<211> 37	
<212> DNA	
<213> Mus musculus	
<100> 2F	
<400> 25 aacttttctg atgagtccgt gaggacgaaa cataatg	37
aacttttetg atgagteegt gaggaegaaa cataatg	<i>J</i> /
<210> 26	
<211> 42	
<212> DNA	
<213> Rattus norvegicus	
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<211> 37	
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<210> 28	
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<212> DNA	
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<400> 28	37
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<212> DNA	
<213> Homo sapiens	
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.010. 00	
<210> 30	
<211> 36	
<212> DNA	
<213> Homo sapiens	
<400> 30	
tgcaatactg atgagtccgt gaggacgaaa ctgcct	36

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<210> 31
<211> 36
<212> DNA
<213> Homo sapiens
<400> 31
                                                                          36
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<211> 36
<212> DNA
<213> Homo sapiens
<400> 32
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                                                                          36
<210> 33
<211> 36
<212> DNA
<213> Homo sapiens
<400> 33
                                                                          36
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<210> 34
<211> 38
<212> DNA
<213> Homo sapiens
<400> 34
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<210> 35
<211> 36
<212> DNA
<213> Homo sapiens
<400> 35
                                                                          36
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<212> DNA
<213> Homo sapiens
<400> 36
gtccagtctg atgagtccgt gaggacgaaa cttaag
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<210> 37
<211> 55
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
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<212> DNA
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<223> primer
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                                                                          59
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<223> primer
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<213> Artificial Sequence
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<223> primer
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<210> 41
<211> 41
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
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<210> 42
<211> 41
<212> DNA
<213> Artificial Sequence
<220>
<223> primer
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<211> 64
<212> DNA
<213> Artificial Sequence
<220>
<223> ribozyme construct
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                                                                          64
 tgaa
<210> 44
<211> 65
<212> DNA
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<220>
<223> ribozyme construct
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<211> 65
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<223> ribozyme construct
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<210> 47
<211> 63
<212> DNA
<213> Artificial Sequence
<220>
<223> ribozyme construct
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ttg
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<213> Artificial Sequence
<220>
<223> ribozyme construct
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                                                                         60
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                                                                         64
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<210> 49
<211> 170
<212> RNA
<213> Artificial Sequence
<220>
<223> pClip triple ribozyme
<221> modified_base
<222> (1)...(170)
<223> n=a, c, g, or u
<400> 49
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                                                                         60
 gagaucunnn nnnncugaug aguccgugag gacgaaannn nnagauccgu cgacggaucu
                                                                        120
                                                                        170
 agauccgucc ugaugagucc gugaggacga aacggaucug cagcggccgc
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<211> 249
<212> RNA
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<220>
<223> pChop triple ribozyme
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<221> modified_base
<222> (1)...(249)
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cacggucagc agaaugucau cgucgguucc aggauccnnn nnncugauga guccgugagg 120
acgaaannnn nnnnnggaau uccaaggguc ugcgcaacga cgacgaugag guaccacauc 180
gucgucguug cgcacugaug aggccgugag gccgaaaccc uugacgcguu ccuaugcggc 240
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cgcucuaga
<210> 51
<211> 364
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<212> DNA

<400> 54

```
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<213> E. coli
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                                                                      56
<210> 56
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<210> 58
<211> 54
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<213> E. coli
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                                                                     54
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